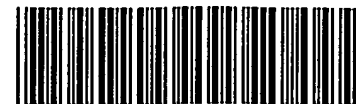


RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/519,132
Source: PCT
Date Processed by STIC: 2/21/06

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PCT

RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/519,132

TIME: 12:27:06

Input Set : A:\23380-602nat1.txt

Output Set: N:\CRF4\02212006\J519132.raw

3 <110> APPLICANT: Strittmatter, Stephen
 5 <120> TITLE OF INVENTION: Modulators and Modulation of the Interaction Between RGM and
 6 Neogenin
 8 <130> FILE REFERENCE: 23380-602NATL
 10 <140> CURRENT APPLICATION NUMBER: 10/519,132
 C--> 11 <141> CURRENT FILING DATE: 2004-12-22
 13 <150> PRIOR APPLICATION NUMBER: PCT/US03/20147
 14 <151> PRIOR FILING DATE: 2003-06-26
 16 <150> PRIOR APPLICATION NUMBER: 60/392,062
 17 <151> PRIOR FILING DATE: 2002-06-26
 19 <160> NUMBER OF SEQ ID NOS: 2
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 1445
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Homo sapiens
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 35 20 25 30
 38 Leu Leu Leu Gly Arg Pro Ala Ser Gly Ala Ala Ala Thr Lys Ser Gly
 39 35 40 45
 42 Ser Pro Pro Gln Ser Ala Gly Ala Ser Val Arg Thr Phe Thr Pro Phe
 43 50 55 60
 46 Tyr Phe Leu Val Glu Pro Val Asp Thr Leu Ser Val Arg Gly Ser Ser
 47 65 70 75 80
 50 Val Ile Leu Asn Cys Ser Ala Tyr Ser Glu Pro Ser Pro Asn Ile Glu
 51 85 90 95
 54 Trp Lys Lys Asp Gly Thr Phe Leu Asn Leu Glu Ser Asp Asp Arg Arg
 55 100 105 110
 58 Gln Leu Leu Pro Asp Gly Ser Leu Phe Ile Ser Asn Val Val His Ser
 59 115 120 125
 62 Lys His Asn Lys Pro Asp Glu Gly Phe Tyr Gln Cys Val Ala Thr Val
 63 130 135 140
 66 Asp Asn Leu Gly Thr Ile Val Ser Arg Thr Ala Lys Leu Thr Val Ala
 67 145 150 155 160
 70 Gly Leu Pro Arg Phe Thr Ser Gln Pro Glu Pro Ser Ser Val Tyr Val
 71 165 170 175
 74 Gly Asn Ser Ala Ile Leu Asn Cys Glu Val Asn Ala Asp Leu Val Pro
 75 180 185 190
 78 Phe Val Arg Trp Glu Gln Asn Arg Gln Pro Leu Leu Leu Asp Asp Arg
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/519,132

DATE: 02/21/2006

TIME: 12:27:06

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87 225                      230                      235                      240
90 Lys Phe Ser Asp Glu Ala Glu Leu Lys Val Leu Gln Asp Arg Glu Glu
91      245                      250                      255
94 Ile Val Asp Leu Val Phe Leu Met Arg Pro Ser Ser Met Met Lys Val
95      260                      265                      270
98 Thr Gly Gln Arg Ala Val Leu Pro Cys Val Val Ser Gly Leu Pro Ala
99      275                      280                      285
102 Pro Val Val Arg Trp Met Lys Asn Glu Glu Val Leu Asp Thr Glu Ser
103      290                      295                      300
106 Ser Gly Arg Leu Val Leu Leu Ala Gly Gly Gly Leu Glu Ile Ser Asp
107 305                      310                      315                      320
110 Val Thr Glu Asp Asp Ala Gly Thr Tyr Phe Cys Ile Ala Asp Asn Gly
111      325                      330                      335
114 Asn Lys Thr Val Glu Ala Gln Ala Glu Leu Thr Val Gln Val Pro Pro
115      340                      345                      350
118 Gly Phe Leu Lys Gln Pro Ala Asn Ile Tyr Ala His Glu Ser Met Asp
119      355                      360                      365
122 Ile Val Phe Glu Cys Glu Val Thr Gly Lys Pro Thr Pro Thr Val Lys
123      370                      375                      380
126 Trp Val Lys Asn Gly Asp Val Val Ile Pro Ser Asp Tyr Phe Lys Ile
127 385                      390                      395                      400
130 Val Lys Glu His Asn Leu Gln Val Leu Gly Leu Val Lys Ser Asp Glu
131      405                      410                      415
134 Gly Phe Tyr Gln Cys Ile Ala Glu Asn Asp Val Gly Asn Ala Gln Ala
135      420                      425                      430
138 Gly Ala Gln Leu Ile Ile Leu Glu His Ala Pro Ala Thr Thr Gly Pro
139      435                      440                      445
142 Leu Pro Ser Ala Pro Arg Asp Val Val Ala Ser Leu Val Ser Thr Arg
143      450                      455                      460
146 Phe Ile Lys Leu Thr Trp Arg Thr Pro Ala Ser Asp Pro His Gly Asp
147 465                      470                      475                      480
150 Asn Leu Thr Tyr Ser Val Phe Tyr Thr Lys Glu Gly Val Asp Arg Glu
151      485                      490                      495
154 Arg Val Glu Asn Thr Ser Gln Pro Gly Glu Met Gln Val Thr Ile Gln
155      500                      505                      510
158 Asn Leu Met Pro Ala Thr Val Tyr Ile Phe Lys Val Met Ala Gln Asn
159      515                      520                      525
162 Lys His Gly Ser Gly Glu Ser Ser Ala Pro Leu Arg Val Glu Thr Gln
163      530                      535                      540
166 Pro Glu Val Gln Leu Pro Gly Pro Ala Pro Asn Ile Arg Ala Tyr Ala
167 545                      550                      555                      560
170 Thr Ser Pro Thr Ser Ile Thr Val Thr Trp Glu Thr Pro Leu Ser Gly
171      565                      570                      575
174 Asn Gly Glu Ile Gln Asn Tyr Lys Leu Tyr Tyr Met Glu Lys Gly Thr
175      580                      585                      590
178 Asp Lys Glu Gln Asp Ile Asp Val Ser Ser His Ser Tyr Thr Ile Asn

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/519,132

DATE: 02/21/2006

TIME: 12:27:06

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Output Set: N:\CRF4\02212006\J519132.raw

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190 Ser Asp Val Pro Ser Ala Ala Pro Gln Asn Leu Ser Leu Glu Val Arg
191          645          650          655
194 Asn Ser Lys Ser Ile Val Ile His Trp Gln Pro Pro Ser Ser Thr Thr
195          660          665          670
198 Gln Asn Gly Gln Ile Thr Gly Tyr Lys Ile Arg Tyr Arg Lys Ala Ser
199          675          680          685
202 Arg Lys Ser Asp Val Thr Glu Thr Leu Val Thr Gly Thr Gln Leu Ser
203          690          695          700
206 Gln Leu Ile Glu Gly Leu Asp Arg Gly Thr Glu Tyr Asn Phe Arg Val
207 705          710          715          720
210 Ala Ala Leu Thr Val Asn Gly Thr Gly Pro Ala Thr Asp Trp Leu Ser
211          725          730          735
214 Ala Glu Thr Phe Glu Ser Asp Leu Asp Glu Thr Arg Val Pro Glu Val
215          740          745          750
218 Pro Ser Ser Leu His Val Arg Pro Leu Val Thr Ser Ile Val Val Ser
219          755          760          765
222 Trp Thr Pro Pro Glu Asn Gln Asn Ile Val Val Arg Gly Tyr Ala Ile
223          770          775          780
226 Gly Tyr Gly Ile Gly Ser Pro His Ala Gln Thr Ile Lys Val Asp Tyr
227 785          790          795          800
230 Lys Gln Arg Tyr Tyr Thr Ile Glu Asn Leu Asp Pro Ser Ser His Tyr
231          805          810          815
234 Val Ile Thr Leu Lys Ala Phe Asn Asn Val Gly Glu Gly Ile Pro Leu
235          820          825          830
238 Tyr Glu Ser Ala Val Thr Arg Pro His Thr Val Pro Asp Pro Thr Pro
239          835          840          845
242 Met Met Pro Pro Val Gly Val Gln Ala Ser Ile Leu Ser His Asp Thr
243          850          855          860
246 Ile Arg Ile Thr Trp Ala Asp Asn Ser Leu Pro Lys His Gln Lys Ile
247 865          870          875          880
250 Thr Asp Ser Arg Tyr Tyr Thr Val Arg Trp Lys Thr Asn Ile Pro Ala
251          885          890          895
254 Asn Thr Lys Tyr Lys Asn Ala Asn Ala Thr Thr Leu Ser Tyr Leu Val
255          900          905          910
258 Thr Gly Leu Lys Pro Asn Thr Leu Tyr Glu Phe Ser Val Met Val Thr
259          915          920          925
262 Lys Gly Arg Arg Ser Ser Thr Trp Ser Met Thr Ala His Gly Ala Thr
263          930          935          940
266 Phe Glu Leu Val Pro Thr Ser Pro Pro Lys Asp Val Thr Val Val Ser
267 945          950          955          960
270 Lys Glu Gly Lys Pro Arg Thr Ile Ile Val Asn Trp Gln Pro Pro Ser
271          965          970          975
274 Glu Ala Asn Gly Lys Ile Thr Gly Tyr Ile Ile Tyr Tyr Ser Thr Asp
275          980          985          990

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RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/519,132

TIME: 12:27:06

Input Set : A:\23380-602natl.txt

Output Set: N:\CRF4\02212006\J519132.raw

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286 Tyr Phe Lys Ile Gln Ala Arg Asn Ser Lys Gly Met Gly Pro Met
287      1025      1030      1035
290 Ser Glu Ala Val Gln Phe Arg Thr Pro Lys Ala Leu Gly Ser Ala
291      1040      1045      1050
294 Gly Lys Gly Ser Arg Leu Pro Asp Leu Gly Ser Asp Tyr Lys Pro
295      1055      1060      1065
298 Pro Met Ser Gly Ser Asn Ser Pro His Gly Ser Pro Thr Ser Pro
299      1070      1075      1080
302 Leu Asp Ser Asn Met Leu Leu Val Ile Ile Val Ser Val Gly Val
303      1085      1090      1095
306 Ile Thr Ile Val Val Val Val Val Ile Ala Val Phe Cys Thr Arg
307      1100      1105      1110
310 Arg Thr Thr Ser His Gln Lys Lys Lys Arg Ala Ala Cys Lys Ser
311      1115      1120      1125
314 Val Asn Gly Ser His Lys Tyr Lys Gly Asn Cys Lys Asp Val Lys
315      1130      1135      1140
318 Pro Pro Asp Leu Trp Ile His His Glu Arg Leu Glu Leu Lys Pro
319      1145      1150      1155
322 Ile Asp Lys Ser Pro Asp Pro Asn Pro Val Met Thr Asp Thr Pro
323      1160      1165      1170
326 Ile Pro Arg Asn Ser Gln Asp Ile Thr Pro Val Asp Asn Ser Met
327      1175      1180      1185
330 Asp Ser Asn Ile His Gln Arg Arg Asn Ser Tyr Arg Gly His Glu
331      1190      1195      1200
334 Ser Glu Asp Ser Met Ser Thr Leu Ala Gly Arg Arg Gly Met Arg
335      1205      1210      1215
338 Pro Lys Met Met Met Pro Phe Asp Ser Gln Pro Pro Gln Pro Val
339      1220      1225      1230
342 Ile Ser Ala His Pro Ile His Ser Leu Asp Asn Pro His His His
343      1235      1240      1245
346 Phe His Ser Ser Ser Leu Ala Ser Pro Ala Arg Ser His Leu Tyr
347      1250      1255      1260
350 His Pro Ser Ser Pro Trp Pro Ile Gly Thr Ser Met Ser Leu Ser
351      1265      1270      1275
354 Asp Arg Ala Asn Ser Thr Glu Ser Val Arg Asn Thr Pro Ser Thr
355      1280      1285      1290
358 Asp Thr Met Pro Ala Ser Ser Ser Gln Thr Cys Cys Thr Asp His
359      1295      1300      1305
362 Gln Asp Pro Glu Gly Ala Thr Ser Ser Ser Tyr Leu Ala Ser Ser
363      1310      1315      1320
366 Gln Glu Glu Asp Ser Gly Gln Ser Leu Pro Thr Ala His Val Arg
367      1325      1330      1335
370 Pro Ser His Pro Leu Lys Ser Phe Ala Val Pro Ala Ile Pro Pro
371      1340      1345      1350
374 Pro Gly Pro Pro Leu Tyr Asp Pro Ala Leu Pro Ser Thr Pro Leu

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RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/519,132

TIME: 12:27:06

Input Set : A:\23380-602nat1.txt

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383      1385      1390      1395
386 Val Val  Pro Ser Ala Pro Glu  Val Gln Glu Thr Thr  Arg Met Leu
387      1400      1405      1410
390 Glu Asp  Ser Glu Ser Ser Tyr  Glu Pro Asp Glu Leu  Thr Lys Glu
391      1415      1420      1425
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399      1445
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412 gccactcgtg gggtagagat ggcggcggag cgcgaagccg ggcgactcct ctgcacctcc      180
414 tcctcccggc gctgctgtcc gccaccgcgc ctgctgctgt tgctgccgct gctgctgctg      240
416 ctcggaagcc cggcgctccg cgcgcgggcc acgaagagcg gctccccgcc gcagtcgcga      300
418 ggagccagtg ttcgaaacatt cactccgttt tattttctgg tggagccgat agacaccctc      360
420 tcagttagag gctcttctgt tatattaaat tgctcggcat attctgagcc ctctccaaac      420
422 attgaatgga agaaagatgg gactttttta aacttagaat cagatgatcg acgccagcta      480
424 ctcccagatg gatctttatt catcagcaac gtggtgcatt ccaaacacaa taagcctgac      540
426 gaaggtttct atcagtgtgt agccactgtg gataatcttg gaaccattgt cagcagaaca      600
428 gccaagctca cagtagcagg tcttccaaga ttaccagcc aaccagaacc ttcttcagtc      660
430 tatgttggaa acagtgaat tctgaattgt gaagttaatg cagatttggt cccatttggt      720
432 aggtgggaac agaactgaca gccccttctt ctagatgaca ggattgtcaa acttccaagt      780
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438 gaggaaattg tagacttggt atttctgatg cgaccatttt ctatgatgaa agtcaactgt      960
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466 agttcagctc ctcttcgagt agagacacag cctgaggttc agctccctgg cccagcacct      1800
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/519,132

DATE: 02/21/2006

TIME: 12:27:07

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